

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Applicant: Lai, Shih-Yaw et al.
For: Elastic Substantially Linear Olefin Polymers
Atty. Docket No. DOW-8544-CJ

U.S. PATENT DOCUMENTS

AMINER IAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3	4	9	1	0	7	3					
RL	4	2	0	5	0	2	1	5-27-80	Morita et al			
	5	0	5	5	4	3	8	10-08-91	Canich			
	4	5	3	0	9	1	4	7-23-85	Ewen et al			
	4	9	3	5	4	7	4	6-19-90	Ewen et al			
	4	9	3	7	2	5	9	6-26-90	Ewen et al			
	5	0	2	6	7	9	8	6-25-91	Canich			
	3	6	4	5	9	9	2	02-29-72	Elston			
	5	0	9	6	8	6	7	03/1992	Canich et al.	502	103	
	6	0	6	0	5	6	7	05/2000	Lai et al.	526	126	
RL	5	9	8	6	0	2	8	11/1999	Lai et al.	526	126	

FOREIGN PATENT DOCUMENTS

AMINER IAL	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	0	4	1	6	8	1	5					
RL	0	4	1	6	8	1	5	A2	03/1991	European		
RL	9	0	0	3	4	1	4		04/1990	WO		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

RL	Journal of Polymer Science, Part A, Vol. 1 (pp. 2869-2880 (1963)), "Long-Chain Branching Frequency in Polyethylene" by J. E. Guillet
	Polymer Preprints, Amer. Chem. Society, Vol. 12, No. 1, pp. 277-281 (March 1971), "Evidence of Long-Chain Branching in High Density Polyethylene" by E. E. Drott and R. A. Mendelson
	Journal of the American Chemical Society, 98:7, pp. 1729-1742 (March 31, 1976) "Structure and Chemistry of Biscyclopentadienyl-Mn Complexes" by Joseph W. Lauber and Roald Hoffmann
	Polymer Engineering and Science, Vol. 16, No. 12, pp. 811-816 (December 1976), "Influence of Long-Chain Branching on the Viscoelastic Properties of Low-Density Polyethylenes" by L. Wild, R. Ranganath, and D. Knobeloch
	Angew. Chem. Int. Ed. Engl. pp. 630-632 (1976) Vol. 15, No. 10 "Halogen-Free Soluble Ziegler Catalysts for the Polymerization of Ethylene: Control of Molecular Weight by Choice of Temperature" by Arne Andresen et al
RL	Advances in Organometallic Chemistry, pp. 99-146, Vol. 18, (1980) "Ziegler-Natta Catalysts" by Hansjorg Sinn and Walter Kaminsky.

AMINER:	Robert Rabe	DATE CONSIDERED:	2/3/04
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RPL	5	0	8	2	9	0	8	1-21-92	Imai et al.			
	5	0	5	9	4	8	1	10-22-91	Lustig et al.			
	4	9	6	7	8	9	8	11-6-90 12-11-90	Muller et al. Lustig et al.			
	4	9	6	6	9	5	1	10-30-90	Benham et al.			
	4	9	6	3	3	8	8	10-16-90	Benoit			
	4	8	3	3	0	1	7	5-23-89	Benoit			
	4	8	2	6	9	3	9	5-2-89	Stuart			
	4	8	0	3	2	5	3	2-7-89	McDaniel et al.			
	4	6	9	2	3	8	6	9-8-87	Schinkel et al.			
RPL	4	6	9	0	9	9	1	9-1-87	Seppal Seppala			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

RPL		Derwent 90-239017/31						
RPL		Advances In Polyolefins, by R. B. Seymour and T. Cheng, (1987) "Polymerization of Olefins With A Homogeneous Zirconium/Alumoxane Catalyst", pp. 361-371 by W. Kauinsky and H. Hahnse						

EXAMINER: Robert Rude DATE CONSIDERED: 2/3/04

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PL	4	6	6	8	5	7	5	S-26-87	Schinkel et al.				
	4	6	6	6	7	7	2	S-19-87	Schinkel et al.				
	4	6	2	4	9	9	1	11-25-86	Haas				
	4	5	8	8	7	9	4	S-13-86	Oda				
	4	4	8	2	6	8	7	11-13-84	Noshay et al.				
	4	3	9	0	6	7	7	6-28-83	Karol et al.				
	4	3	6	3	9	0	4	12-14-82	Fraser et al.				
	4	3	5	9	5	6	1	11-16-82	Fraser et al.				
PL	4	3	0	3	7	7	1	12-01-81	Wagner et al.				

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PL		1991 Specialty Polyolefins Conference Proceedings, "The Marketing Challenge Created By Single Site Catalysts in Polyolefins, September 24, 1991, (pp. 41-45) by Michael P. Jeffries
		High Polymers, Vol. XX, "Crystalline Olefin Polymers" Part I, pp. 495-501, Raff et al.
		1991 Polymers, Laminations & Coatings Conference, TAPPI Proceedings, presented in February, 1991, pp. 289-296, "A New Family of Linear Ethylene Polymers with Enhanced Sealing Performance" by D. Vander Sanden and R. W. Halle
		Society of Plastic Engineers 1991 Specialty Polyolefins Conference Proceedings, pp. 41-55, "The Marketing Challenge Created by Single Site Catalysts in Polyolefins" by M. Jelleries (September 24, 1991)
PL		Advances in Polyolefins, by R. B. Seymour and T. Cheng, (1987), pp. 373-380 "Crystallinity and Morphology of Ethylene-a-Olefin Copolymers" by P. Schouteden, G. Groeninckx, and H. Reynaers
		Advances in Polyolefins, by R. B. Seymour and T. Cheng, (1987) "New Catalysts and Process For Ethylene Polymerization", pp. 337-354, by F. Karol, B. Wagner, C. Levine, G. Cocke, and A. Noshay

EXAMINER:

Rohini Patel

DATE CONSIDERED:

2/3/04

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EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PR		4	3	0	2	5	6	6	11-24-81	Karol et al.		
		4	2	5	9	4	6	8	3-31-81	Kajiura et al.		
		4	0	1	1	3	8	4	3-8-77	Baxmann et al.		
		5	0	8	4	9	2	7	2-4-92	Parkevich		
		5	0	8	4	0	3	9	1-28-92	Cancio et al.		
		5	0	7	3	5	9	9	12-17-91	Genske		
		5	0	7	3	4	5	2	12-17-91	Satou et al.		
		5	0	6	8	4	8	9	11-26-91	Edwards et al.		
		5	0	6	4	7	9	6	11-12-91	Specia		
		5	0	5	5	5	3	4	10-8-91	Theobald		
PR		5	0	5	5	5	3	3	10-8-91	Allen et al.		

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EXAMINER INITIAL		DOCUMENT NUMBER			DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
									YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PR		Journal of Macromolecular Science: Review in Macromolecular Chemistry and Physics, C29(2&3), pp. 201-303 (1989) "A Review of High Resolution Liquid ¹³ C-Nuclear Magnetic Resonance Characterization of Ethylene-Based Polymers", J. C. Randall.
		Journal of Non-Newtonian Fluid Mechanics, 36, pp. 255-263 (1990) "Additional Observations on The Surface Melt Fracture Behavior Of Linear Low-Density Polyethylene" by R. Moynihan, D. Baird, and R. Ramanathan
		Makromol. Chem. Rapid Commun., pp. 39-94 (1990) "Terpolymers of Ethylene, Propene and 1,5-Hexadiene Synthesized with Zirconocene/Methylaluminoxane" by W. Kaminsky and H. Drogemuller
		Journal of Rheology, 35 (4), 3 (May, 1991) pp. 497-522 "Wall Slip of Molten High Density Polyethylene: I. Sliding Plate Rheometer Studies" by S. G. Hatzikiriakos and J. M. Dealy
		Proceedings of the 1991 IEEE Power Engineering Society, pp. 184-190 (September 22-27, 1991), "New Specialty Linear Polymers/SLP For Power Cables" by Monica Hendewerk and Lawrence Spenadel
PR		Society of Plastic Engineers Proceedings, Polyolefins VII International Conference, February 24-27, 1991, "Structure/Property Relationships In Expol TM Polymers" (pp. 45-66) by C. Speed, B. Trudell, A. Mehta, and F. Stebling

EXAMINER: Roberto Rabasa DATE CONSIDERED: 2/3/04

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RL	5	0	4	7	4	6	8	9-10-91	Lee et al.				
	R	E	3	3	6	8	3	9-3-91	Allen et al.				
	S	0	4	3	0	4	0	8-27-91	Butler				
	S	0	4	1	3	1	6	8-20-91	Parnell et al.				
	S	0	2	5	0	7	2	6-18-91	Nowlan et al.				
	S	0	2	4	7	9	9	6-18-91	Harp et al.				
	S	0	1	5	5	1	1	5-14-91	Treybig et al.				
	S	0	1	3	8	0	1	5-7-91	Cozewith et al.				
RL	5	0	0	6	3	9	6	4-9-91	VanBortel et al.				

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Page's, Etc.)

RL		Journal of Applied Polymer Science, pp. 3751-3765 (1985) Vol. 30, "On the Effects of Very Low Levels of Long Chain Branching on Rheological Behavior in Polyethylene" by B. H. Bersted.
		Journal of Polymer Science: Polymer Chemistry Edition, pp. 2151-2164 (1985) Vol. 23, "Ethylene Propylene Diene Terpolymers Produced with a Homogeneous and Highly Active Zirconium Catalyst" by Walter Kaminsky et al.
		The Society of Rheology, pp. 337-357 (1986) Vol. 30, "Wall Slip in Viscous Fluids and Influence of Materials of Construction" by A. V. Ramamurthy
		Makromol. Chem., Macromol. Symp., 4, pp. 103-113 (1986) "Elastomers By Atactic Linkage of α -Olefins Using Soluble Ziegler Catalysts" by W. Kaminsky and M. Schlobach
		Journal of Rheology, 31(8) pp. 815-834 (1987) "Wall Slip and Extrudate Distortion in Linear Low-Density Polyethylene" by D. Kalika and M. Denn
RL		Makromol. Chem., 190, pp. 515-526 (1989) "Copolymerization of Cycloalkenes with Ethylene in Presence of Chiral Zirconocene Catalysts" by W. Kaminsky and R. Spielh

EXAMINER: Richard Raley DATE CONSIDERED: 2/3/94

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PL	4	9	8	3	4	4	7	1-8-91	Crass et al.			
	4	9	8	1	8	2	6	1-1-91	Speca			
	4	9	7	5	3	1	5	12-4-90	Bolthe et al.			
	4	9	6	8	7	6	5	11-6-90	Yagi et al.			
	4	9	2	5	7	2	8	5-15-90	Crass et al.			
	4	9	2	1	9	2	0	5-1-90	Collomb-Ceccarini et al.			
	4	8	9	2	9	1	1	1-9-91	Genske			
	4	8	8	8	3	1	8	12-19-89	Allen et al.			
PL	4	8	8	2	4	0	6	11-21-89	Cozewith et al.			

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							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PL		Angew. Chem. Int. Ed. Engl., pp. 390-393, Vol 19 No. 5 (1980) "Living Polymers" on Polymerization with Extremely Productive Ziegler Catalysts" by Hansjorg Sinn, Walter Kaminsky, Hans-Jürgen Vollmer, and Rudiger Woldt
		Polymer Bulletin, 9, pp. 464-469 (1983) "Halogen Free Soluble Ziegler Catalysts with Methylalumoxane as Catalyst" by Jens Herwig and Walter Kaminsky
		Makromol. Chem., Rapid Commun., 4, pp. 417-421 (1983) "Bis(cyclopentadienyl)zirconium-Verbindungen und Aluminoxane als Ziegler-Katalysatoren für die Polymerisation und Copolymerisation von Olefinen" by Walter Kaminsky et al.
		ANTEC Proceedings, pp. 306-309 (1983), "Analysis of Long Chain Branching in High Density Polyethylene" by J.K. Hughes
		Makromol. Chem., Rapid Commun., 5, pp. 225-228 (1984) "Influence of hydrogen on the polymerization of ethylene with the homogeneous Ziegler system bis(cyclopentadienyl)zirconium dichloride/aluminoxane" by Walter Kaminsky et al.
PL		Journal of Polymer Science: Polymer Chemistry Edition, pp. 2117-2133 (1985) Vol. 23, "Homogeneous Ziegler-Natta Catalysts. II. Ethylene Polymerization by IVB Transition Metal Complexes-Methyl Aluminoxane Catalyst Systems" by E. Giannelis and R. Matzorchi

EXAMINER: Robert Pate DATE CONSIDERED: 2/3/04

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RL	4	8	7	6	3	2	1	10-24-89	Lo et al.			
	4	8	7	4	8	2	0	10-17-89	Cozewith et al.			
	4	8	5	7	6	1	1	8-15-89	Durand et al.			
	4	8	4	2	9	5	1	6-27-89	Yamada et al.			
	4	8	4	2	9	3	0	6-27-89	Schinkel			
	4	8	4	2	1	8	7	6-27-89	Janocha et al.			
	4	8	3	4	9	4	7	5-30-89	Cook et al.			
	4	8	3	0	9	2	6	5-16-89	Mostert			
	4	8	2	4	8	8	9	4-25-89	Mostert			
RL	4	8	0	8	6	3	5	2-28-89	Nguyen			

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EXAMINER: Robert Rub DATE CONSIDERED: 2/3/04

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G. ESS

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	4	7	8	9	7	1	4					
	4	7	8	8	2	3	2	11-29-88	Needham			
	4	7	8	0	2	6	4	10-25-88	Dohrer et al.			
	4	7	7	5	7	1	0	10-4-88	Dunski et al.			
	4	7	6	4	5	4	9	8-16-88	Greenhalgh et al.			
	4	7	6	2	8	9	8	8-9-88	Matsuura et al.			
	4	7	4	2	1	3	8	5-3-88	Kageyama			
	4	7	3	2	8	8	2	3-22-88	Allen et al.			
	4	7	2	2	9	7	1	2-2-88	Datta et al.			
	4	7	1	9	1	9	3	1-12-88	Levine et al.			
PR	4	7	1	6	2	0	7	12-29-87	Cozewith et al.			

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													YES	NO

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EXAMINER: Kokubo, Pakay DATE CONSIDERED: 2/3/04

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Rev. 9-85

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PL	4	7	1	0	5	3	8	12-1-87	Jorgensen				
	4	6	9	0	9	9	2	9-1-87	Grubbs et al.				
	4	6	7	7	0	8	7	6-30-87	Lo et al.				
	4	6	7	6	9	2	2	6-30-87	Sommer				
	4	6	7	2	0	9	6	6-9-87	Nowlin				
	4	6	6	8	6	5	0	5-26-87	Lo et al.				
	4	6	6	6	9	9	9	5-19-87	Cook et al.				
	4	6	2	9	7	7	1	12-16-86	Candlin et al.				
	4	6	2	6	4	6	7	12-2-86	Hostetter				
PL	4	6	1	8	6	6	2	10-21-86	Nowlin				

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EXAMINER: <i>Rohit Rab</i>	DATE CONSIDERED: <i>2/3/04</i>
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RPT	4	5	9	9	3	9	1	7-8-86	Yamamoto et al.			
	4	5	9	3	0	0	9	6-3-86	Nowlin			
	4	5	8	7	3	1	8	5-6-86	Inoue et al.			
	4	4	7	4	7	4	0	10/7/86 4-23-86	Karwak et al. Bressel et al.			
	4	5	6	8	7	1	3	2-4-86	Hansen et al.			
	4	5	4	7	5	5	5	10-15-85	Cook et al.			
	4	5	1	9	9	6	8	5-28-85	Mitchel et al. Klauser et al.			
	4	5	1	3	0	3	8	4-23-85	Anthony			
RPT	4	5	0	5	9	7	0	3-19-85	Craver			

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EXAMINER	Robert Parker	DATE CONSIDERED:	2/3/04
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PL	4	4	6	7	0	6	5	8-21-84	William et al.			
	4	4	6	1	7	9	2	7-24-84	Anthony			
	4	4	5	4	2	8	1	6-12-84	Heitz et al.			
	4	4	5	2	9	5	8	6-5-84	Chester et al.			
	4	4	2	7	5	7	3	1-24-84	Miles et al.			
	4	4	2	4	1	3	8	1-3-84	Candlin et al.			
	4	4	1	0	6	4	9	10-18-83	Cieloszyk			
	4	3	8	3	0	9	5	5-10-83	Goeke et al.			
	4	3	7	9	1	9	7	4-5-83	Cipriani et al.			
	4	3	7	0	4	5	6	1-25-83	George			
PL	4	3	5	4	0	0	9	10-12-82	Goeke et al.			

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EXAMINER: Robert Duley

DATE CONSIDERED:

1/3/04

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SEARCHER NAME	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
EP	5	0	5	5	3	3	8	10-8-91	Sheth et al.				
	5	0	1	9	3	1	5	5-28-91	Wilson				
	4	9	9	6	0	9	4	2-26-91	Dutt				
	4	9	5	9	4	3	6	9-25-90	Cozewith et al.				
	4	9	2	3	7	5	0	5-8-90	Jones				
	4	8	8	3	8	5	3	11-28-89	Hobes et al.				
PPL	4	8	7	4	8	2	0	10-17-89	Cozewith et al.				
	4	8	2	0	5	8	9	4-11-89	Dobreski et al.				

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ХАМИГИ

Robert Robey

DATE CONSIDERED:

2304

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INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary).

Applicant: Lai, Shih-Yaw et al.
For: Elastic Substantially Linear Olefin Polymers
Atty. Docket No. DOW-8544-CJ

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CR	4	7	9	2	5	9	5	12-20-88	Cozewith et al.				
	4	7	2	0	4	2	7	1-19-88	Clauson et al.				
	4	6	4	9	0	0	1	3-10-87	Nakamura et al.				
	4	6	1	7	2	4	1	10-14-86	Mueller				
	4	6	1	3	5	4	7	9-23-86	Wagner et al.				
	4	5	9	8	1	2	8	7-1-86	Raydall et al. James et al.				
	4	5	9	7	9	2	0	7-1-86	Golike				
	4	5	8	8	6	5	0	5-13-86	Mientus et al.				
RP	4	5	6	4	5	5	9	1-14-86	Wagner				

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

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EXAMINER: Richard Raley

DATE CONSIDERED:

2/3/04

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INFORMATION DISCLOSURE CITATION
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For: Elastic Substantially Linear Olefin Polymers
Atty. Docket No. DOW-8544-CJ

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PR	4	5	6	3	5	0	4	1-7-86	Hert et al.				
	4	5	5	1	3	8	0	11-5-85	Schoenberg				
	4	5	3	2	1	8	9	7-30-85	Mueller				
	4	5	1	4	4	6	5	4-30-85	Schoenberg				
	4	4	8	6	5	7	9	12-4-84	Machon et al.				
	4	4	8	5	2	1	7	11-27-84	Gunter et al.				
	4	4	6	4	4	2	6	8-7-84	Anthony				
	4	4	6	3	1	5	3	7-31-84	Mizutani et al.				
	4	4	3	8	2	4	3	3-20-84	Kashiwa et al.				
PR	4	4	1	8	1	1	4	11-29-83	Briggs et al.				

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EXAMINER INITIAL	DOCUMENT NUMBER							DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER: Robert P. Rohay DATE CONSIDERED: 2/3/04

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INFORMATION DISCLOSURE CITATION
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Applicant: Lai, Shih-Yaw et al.
For: Elastic Substantially Linear Olefin Polymers
Atty. Docket No. DOW-8544-CJ

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PL	4	3	9	9	1	8	0	8-16-83	Briggs				
	4	3	8	0	5	6	7	4-19-83	Shigemoto				
	4	3	6	7	2	5	6	1-4-83	Biel				
	4	3	4	9	6	4	8	9-14-82	Jorgensen et al.				
	4	3	4	6	8	3	4	8-31-82	Mazumdar				
	4	3	4	0	6	4	1	7-20-82	Weiner				
	4	3	4	0	6	4	0	7-20-82	Weiner				
	4	3	3	9	4	9	6	7-13-82	Weiner				
	4	3	3	9	4	9	3	7-13-82	Weiner				
	4	3	2	8	3	2	8	5-4-82	Minami et al.				
PL	4	3	0	3	7	1	0	12-1-81	Bullard et al.				

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

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XAMINER: Roberto Raley DATE CONSIDERED: 2/3/04
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INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Applicant: Lai, Shih-Yaw et al.
For: Elastic Substantially Linear Olefin Polymers
Atty. Docket No. DOW-8544-CJ

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4	4	0	5	7	7	4	9-20-83	Miwa et al.			
	4	5	1	0	3	0	3	4-9-85	Oda et al.			
	4	6	6	8	7	5	2	5-26-87	Tominari et al.			
	4	9	8	7	2	1	2	1-22-91	Morterol et al.			
	5	0	8	4	5	4	0	1-28-92	Albizzati et al.			
	5	6	6	5	8	0	0	09/1997	Lai et al.	524	115	
	5	5	2	5	6	9	5	06/1996	Lai et al.	526	352	
	6	0	2	5	4	4	8	02/2000	Swindoll et al.	526	127	
RR	5	3	3	6	7	4	6	08/1994	Tsutsui et al.	526	348.6	

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EXAMINER INITIALS	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

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EXAMINER: *Robert R. Raby*

DATE CONSIDERED:

2/3/04

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See § 1.52